

Abstract of the Disclosure

In patterning method with micro-contact printing comprising the steps of: applying resin on a master having projected patterns, hardening the resin and thereafter removing the hardened resin from the master to make a stamp of the resin; applying molecular ink including hydrophobic molecules dispersed in solvent on the stamp and forming micro-contact printed patterns of hydrophobic molecular layer on a substrate by means of the stamp on which the molecular ink is applied and; dipping the substrate with micro-contact printed patterns in hydrophilic molecule solution dispersed in solvent to give chemical modification to the areas of the surface of substrate around the micro-contact printed patterns, solution including hydrophilic molecules having chain length shorter than the chain length of hydrophobic molecules included in the molecular ink is used as the hydrophilic molecule solution. According the method, printed products having micro-contact printed patterns of molecular level with the contrast the micro-contact printed patterns and the area of surface of surface of substrate around the micro-contact printed patterns.